



# THE UNIVERSITY OF TOLEDO

COLLEGE OF MEDICINE  
AND LIFE SCIENCES

Spring Commencement 2023

Friday, May 19

John F. Savage Arena





# LETTER FROM THE DEAN

May 19, 2023

Dear Graduates,

On this occasion of the 52nd Commencement of The University of Toledo College of Medicine and Life Sciences, I am proud to honor you for your exceptional effort, achievements, talents and dedication. I also want to express my appreciation for your family, friends and others who supported you throughout your education at The University of Toledo. I would like to take this opportunity to recognize the faculty and staff who, consistent with the mission of the college, worked tirelessly with you to improve the health of our communities and region and have worked with you to develop your talents and knowledge in research and clinical care.



I join with the Board of Trustees, President, faculty and alumni of this great college and University in welcoming you into the alumni from The University of Toledo College of Medicine and Life Sciences. You will always be linked to this college and institution and we to you. I call upon each of you graduating today to remain involved in the growth and progress of our college. Including today's graduating class of 219 students, over 9,500 alumni of The University of Toledo College of Medicine and Life Sciences have moved forward from their graduation day to meet the needs of society through their life's work as physicians, scientists, physician assistants, pathology assistants and professionals in global health, transplantation and donation sciences and other healthcare disciplines.

To the Class of 2023, I wish you the very best as you go out to conquer society's challenges and become a part of the rich tradition that has set the pace for the future of The University of Toledo College of Medicine and Life Sciences.

Sincerely,

A handwritten signature in black ink, appearing to read "C. J. Cooper".

Christopher J. Cooper, M.D.  
Dean of the College of Medicine and Life Sciences  
Vice Provost for Educational Health Affairs  
Distinguished University Professor, Department of Medicine



# HISTORY OF THE UNIVERSITY OF TOLEDO COLLEGE OF MEDICINE AND LIFE SCIENCES

The Medical College of Ohio at Toledo (MCO) was established by action of the Ohio General Assembly on Dec. 18, 1964. Originally called the Toledo State College of Medicine until it was renamed in 1967, the new medical school was the culmination of several feasibility studies commissioned at the local, state and national levels to address a growing physician workforce shortage.

When the first class of 32 medical students began studies on Sept. 11, 1969, MCO was the fourth medical school in Ohio and the 100th in the nation. The campus was located on the corner of South Detroit and Arlington avenues, along with the former Maumee Valley Hospital, the current site of the Area Office on Aging. The first class of medical students graduated on June 2, 1972.

The MCO master plan, developed by Minoru Yamasaki and Associates, the architect who designed the twin towers of the World Trade Center, called for college development on 346 acres of land between Arlington and Glendale avenues acquired from the Ohio Department of Mental Hygiene and Corrections. Designed by Yamasaki, construction of the first building on the new campus, the Health Science Building, began in late 1970 and was completed in 1973. In 1995, the building was named after Paul Block Jr., one of MCO's founding fathers, who was the first chairman of the institution's Board of Trustees.

In 1997, the Ohio Board of Regents approved a historic cooperative registration agreement allowing the exchange of graduate students between the MCO, The University of Toledo and Bowling Green State University. This crucial agreement laid the groundwork for an eventual merger between MCO and UToledo.

In June 2005, MCO was renamed the Medical University of Ohio (MUO) to reflect the institution's growth. The following year, Ohio state legislators passed a historic bill that merged MUO with The University of Toledo, creating The University of Toledo College of Medicine. The merger was hailed as the most significant event in higher education in Ohio in more than 50 years. Dr. Lloyd A. Jacobs, appointed as the sixth president of MCO in November 2003, was selected to lead the merged universities, becoming the sixteenth president of The University of Toledo on July 1, 2006.

In spring 2015, the College of Medicine and Life Sciences announced a partnership with Toledo-based health system ProMedica. The partnership established a 50-year affiliation between the college and the health system that enriches the quality of medical education and expands clinical training capacity in Toledo. In July 2016, the first class of students and residents began training under the academic affiliation, utilizing new learning space and filling clinical learning opportunities at ProMedica Toledo Hospital. By fostering new partnerships for academic excellence and expanded opportunities for clinical training and residency placement, UToledo is on a long-term mission to recruit top-performing students, educate them to be the best doctors, advanced practitioners and research scientists, and retain them in northwest Ohio as they build their careers.

Including today's graduating class, The University of Toledo College of Medicine and Life Sciences has conferred approximately 6,250 doctor of medicine degrees, 506 doctor of philosophy in biomedical sciences degrees, 2,320 master's degrees in biomedical sciences, public health, occupational health, physician assistant studies, nursing, and health professions, and 328 graduate certificates in pathology, contemporary gerontological practice, global public health, and health and medical education. Today, The University of Toledo College of Medicine and Life Sciences has nearly 400 full- and part-time faculty members, approximately 800 community-based faculty members and more than 400 ProMedica practitioners.

# COLLEGE OF MEDICINE AND LIFE SCIENCES HONORARY DEGREE RECIPIENTS

*Degrees were conferred at College of Medicine  
Commencement except as otherwise noted.*

## 1972

John Rusten Hogness, M.D.  
Robert Bruce Merrifield, Ph.D.  
Robert M. Zollinger, M.D.

## 1973

Robert A. Good, M.D., Ph.D.  
Irvine H. Page, M.D.

## 1974

Britton Chance, Ph.D.  
John A. D. Cooper, M.D.  
Rubin H. Flocks, M.D.

### **At the Dedication of the Health Science Building**

Robert M. Berne, M.D.  
Charles Huggins, M.D.  
George Palade, M.D.  
Elizabeth S. Russell, Ph.D.

## 1975

Norman Kretchmer, M.D., Ph.D.  
Keith R. Porter, Ph.D.  
W. R. Willard, M.D.

### **At the Dedication of the Raymon H. Mulford Library Building**

Frank B. Rogers, M.D.  
Owsei Temkin, M.D.

## 1976

Alene B. Duerk  
A. M. Harvey, M.D.  
William A. Sodeman, Sr., M.D.

### **At the Dedication of the Health Education Building**

Robert W. Leader, D.V.M.  
Walsh McDermott, M.D.  
Lewis Thomas, M.D.

## 1977

D. Carleton Gajdusek, M.D.  
Sir Robert Macintosh, D.M.  
Lawrence E. Young, M.D.

## 1978

John P. Hubbard, M.D.  
Walter H. Seegers, Ph.D.  
Eugene A. Stead, Jr., M.D.

## 1979

Paul B. Beeson, M.D.  
Paul R. Gross, Ph.D.  
Frank F. A. Rawling, M.D.

## 1980

Michael E. DeBakey, M.D.  
Henry L. Morse  
Charles Rammelkamp, Jr., M.D.  
Walter F. Riker, Jr., M.D.

## 1981

Michael J. Damas  
Richard M. Krause  
Bernard Lachner, M.B.A.  
James V. Neel, M.D., Ph.D.  
Thomas L. Stern, M.D.

## 1982

Edward Vaughn Evarts, M.D.  
Loretta C. Ford, Ed.D., RN  
James A. Rhodes

## 1983

Frank J. Dixon, M.D.  
Charlotte Friend, Ph.D.  
Frederick C. Robbins, M.D.

## 1984

Harold F. Falls, M.D.  
F. Story Musgrave, M.D.  
James B. Wyngaarden, M.D.

## 1985

Maclyn McCarty, M.D.  
Edmund D. Pellegrino, M.D.  
Jonathan Evans Rhoads, M.D.

## 1986

George Libman Engel, M.D.  
Ruth L. Kirschstein, M.D.  
James V. Warren, M.D.

## 1987

Delbert Latta  
Lloyd H. Smith, M.D.  
Robert G. Petersdorf, M.D.  
T. Franklin Williams, M.D.

## 1988

Bernard B. Brodie, Ph.D.  
Ada Sue Hinshaw, Ph.D., RN  
Victor A. McKusick, M.D.

## 1989

Ann Landers  
Hans Neurath, Ph.D.  
Louis W. Sullivan, M.D.  
Danny Thomas

## 1990

Robert C. Gallo, M.D.  
Lewis L. Judd, M.D.  
Antonia Coello Novello, M.D., M.P.H.  
Arnold S. Relman, M.D.

## 1991

Elwood V. Jensen, M.D.  
Harold A. McMaster  
George W. Thorn, M.D.  
Rosalyn S. Yalow, Ph.D.

## 1992

James P. Comer, M.D.  
Bernadine P. Healy, M.D.  
David P. Rall, M.D., Ph.D.  
Ora L. Strickland, Ph.D., RN

**1993**

Edmond H. Fischer, Ph.D.  
John Glenn  
Edwin G. Krebs, M.D.

**1994**

Mary McKinney Edmonds, Ph.D., PT  
Willis C. Maddrey, M.D.  
Lucien E. Morris, M.D.  
Wilbur H. Sawyer, M.D., Ph.D.

**1995**

Stephen Abrahamson, Ph.D.  
William F. Ganong, M.D.  
George D. Lundberg, M.D.  
Angela McBride, Ph.D., M.S.N., B.S.N.

**1996**

Ashel G. Bryan  
J. Warren Perry, Ph.D.  
Donald W. Seldin, M.D.

**1997**

Geraldene Felton, Ed.D., RN, FAAN  
Robert Furchgott, Ph.D.  
William B. Kannel, M.D.

**1998**

John M. Fredrickson, M.D.  
Jerome P. Kassirer, M.D.  
George O. Ojemann, M.D.  
Richard D. Ruppert, M.D.

**1999**

Dorothy Brooten, Ph.D., RN, FAAN  
George Isaac  
Holmes Morton, M.D.

**2000**

Elsa L. Brown, Ph.D., RN  
Richard F. Leighton, M.D.  
Robert G. Page, M.D.

**2001**

John M. Howard, M.D.  
Bernard Lown, M.D.  
Beverly L. Malone, Ph.D., RN  
David Satcher, M.D., Ph.D.

**2002**

Leah Curtin, M.A., M.S., RN  
Jamie Farr  
Claude Lenfant, M.D.

**2003**

U.S. Rep. Marcy Kaptur  
Ara Parseghian  
Robert W. Schrier, M.D.

**2004**

Daniel K. Inouye  
Claude H. Organ, Jr., M.D.

**2005**

Allan Block  
John Robinson Block  
Patrick J. Mulrow, M.D.

**2006**

Tim Porter-O'Grady, Ed.D, APRN,  
FAAN  
Raymond R. Sackler, Hon KBE, M.D.  
Walter B. Shelley, M.D., Ph.D., MACP  
Kenneth I. Shine, M.D.

**2007**

Darrell G. Kirch, M.D.

**2008**

David C. Leach, M.D.

**2009**

Bruce Edward Keogh, KBE, M.D.

**2010**

Herbert Pardes, M.D.  
Kevin B. Weiss, M.D., M.P.H.

**At UToledo Fall Commencement**

James C. Stanley, M.D.

**2011**

Risa Lavizzo-Mourey, M.D., M.B.A.

**At the Health Science Campus Research Day**

Ferid Murad, M.D., Ph.D.

**2012**

Jo Ivey Boufford, M.D.  
Chancellor James M. Petro, J.D.

**2013**

Thomas J. Nasca, M.D., MACP

**2014**

James L. Madara, M.D.  
U.S. Sen. Rob Portman, J.D.

**2015**

Yvette Roubideaux, M.D., M.P.H.

**2016**

Ret. U.S. Air Force Maj. Gen.  
Susan Y. Desjardins, M.A.

**2017**

Mehran Anvari, M.B.B.S., Ph.D.,  
FRCSC, FACS

**2018**

Josiah D. Rich, M.D., M.P.H.

**2019**

Scott Parazynski, M.D.

**2020**

S. Amjad Hussain, M.D., FRCSC, FACS

**2021**

Matthew J. Hepburn, M.D.

**2022**

Mona Hanna-Attisha, M.D., M.P.H., FAAP

**2023**

David R. Williams, Ph.D., M.P.H.

# HISTORY OF ACADEMIC REGALIA

Commencement is a ceremony that is steeped in ecclesiastically based tradition that dates to medieval times. These roots are most evident in the traditional garments worn by the faculty and students, which have evolved from the robes, caps, and hoods worn by the monks who founded Oxford University in the eleventh century and Cambridge University in the twelfth century.

In the United States, the academic regalia were first adopted as ceremonial attire for college officials in 1754 at the institution now known as Columbia University. In 1885, students in many of the country's colleges and universities launched a movement to permit graduating candidates to wear robes and caps during commencement exercises. Today, every detail of the academic regalia has significance, including every color, style of hat, and cut of the sleeve of the academic gown. These details were standardized at a meeting in 1895 in New York City hosted by Columbia University for university officials from across the country. The group, named the Intercollegiate Commission, established and adopted the country's first code of color and design for the academic garb. Today's academic regalia reflect the modifications to the code accepted in 1960 and adopted by nearly 95% of the nation's postsecondary institutions.

The Intercollegiate Commission standardized the black Oxford or mortarboard style cap that is worn for all degrees. Only the doctoral degree cap may be round and can be made of velvet. Only doctoral degree holders or presidents of institutions may wear a gold tassel on the cap. The color of the tassel generally represents the color of one's academic discipline.

In the United States, the academic robe is most often black; some institutions, however, sanction the use of specific colors. The length of the robe, the width of the sleeves, and the cut of the gown identify the degree level achieved by the gown's wearer. The bachelor's degree gown is knee length, has pointed sleeves, and is worn closed. The master's degree gown is calf length, has oblong cut sleeves slit at the wrist, and is worn open or closed. The doctoral degree gown is ankle length, has bell shaped sleeves usually crossed with bands of velvet, and is worn open or closed. In addition, the doctoral degree gown usually has velvet panels down the front. The velvet panels often reflect the color of the academic discipline, e.g., green for recipients of the Doctor of Medicine degree and royal blue for the Doctor of Philosophy degree.

The hood is considered the most important and distinctive feature of academic regalia in the American system. The length of the hood distinguishes the degree it represents – the longer the hood drapes in the back, the higher the degree. The color of the velvet binding of the hood identifies the specialized field of study. These colors include green for medicine, royal blue for philosophy, golden yellow for science, salmon for public health and occupational health, and golden yellow for physician assistant studies. The colors in the satin lining of the hood represent the institution granting the degree regardless of the discipline. Therefore, all hoods awarded today at commencement are lined in blue and gold representing the academic colors of The University of Toledo.

The academic regalia adds dignity and style to graduation, emphasizing tradition and the importance of past wisdom in the process of learning.

*The above information was adapted from materials provided by Temple University, Defiance College, and American Universities and Colleges, 13th Edition.*

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*President*

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Vice Provost for Educational Health Affairs  
Distinguished University Professor, Department of Medicine*

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*Department of Radiation Oncology*

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*Department of Physiology  
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*Vice President Medical Affairs —  
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Associate Professor  
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M.B.A.**

*Senior Associate Dean for Research  
Professor  
Department of Neurology*

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*Chief Executive Officer  
University of Toledo Medical Center*

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*Professor and Chair  
Department of Obstetrics  
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**David Walczak, M.B.A.**

*Assistant Dean for Administration  
and Finance*

**Kandace Williams, Ph.D.**

*Senior Associate Dean, College of  
Medicine and Life Sciences  
Graduate Programs  
Professor  
Department of Cell and Cancer Biology*

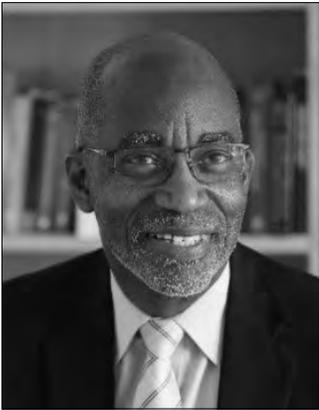
**Randall Worth, Ph.D.**

*Senior Associate Dean for Student  
Affairs and Admissions  
Professor  
Department of Medical Microbiology  
and Immunology*

**Jian-Ting Zhang, Ph.D.**

*Professor and Chair  
Department of Cell and Cancer Biology*

## HONORARY DOCTOR OF SCIENCE DAVID R. WILLIAMS, PH.D., M.P.H.



Dr. Williams is the Florence and Laura Norman Professor of Public Health and Chair, Department of Social and Behavioral Sciences, at the Harvard T.H. Chan School of Public Health. He is also a Professor of African and African American Studies and Sociology at Harvard University. He holds an M.P.H. from Loma Linda University and a Ph.D. in sociology from the University of Michigan.

Dr. Williams is an internationally recognized authority on social influences on health. He has been invited to keynote scientific conferences in Europe, Africa, Australia, the Middle East, South America, the Caribbean and across the United States. The author of more than 500 scientific papers, his research has enhanced our understanding of the ways in which race, socioeconomic status, stress, racism, health behavior and religious involvement can affect physical and mental health. The Everyday Discrimination Scale that he developed is the most widely used measure of discrimination in health studies.

He was elected to the National Academy of Medicine in 2001, the American Academy of Arts and Sciences in 2007 and the National Academy of Sciences in 2019. He has also received distinguished contribution awards from the American Sociological Association, the American Psychological Association, the New York Academy of Medicine, the Association of University Programs in Health Administration, and the Office of Behavioral and Social Sciences at the National Institutes of Health (NIH). He was ranked as one of the top 10 Most Cited Social Scientists in the world in 2005 and as the Most Cited Black Scholar in the Social Sciences, worldwide, in 2008. In 2014, Thomson Reuters ranked him as one of the World's Most Influential Scientific Minds.

Dr. Williams has been involved in the development of health policy at the national level in the U.S. He has served on federal advisory committees and testified at congressional briefings. He has served on 10 committees for the National Academy of Medicine, including the committee that prepared the Unequal Treatment report. He has also played a visible leadership role in raising awareness levels of the problem of health inequities and identifying interventions to address them. He or his research has been featured by some of the nation's top print and television news organizations. His TED Talk, released in 2017, has been translated into 22 languages and has over 1.8 million views.

With funding from the NIH and the sponsorship of the World Health Organization, Dr. Williams directed the South African Stress and Health Study, the first nationally representative study of the prevalence and correlates of mental disorders in sub-Saharan Africa. He has also worked on ethnic inequities with the Toronto Public Health Department, the National Health Service in the U.K. and the Pan American Health Organization. He currently serves on the board of trustees of the Robert Wood Johnson Foundation, on the W.K. Kellogg Foundation's Solidarity Council on Racial Equity and on the Board of the UK's National Health Service Race and Health Observatory.

# ORDER OF EXERCISES

**The University of Toledo  
College of Medicine and  
Life Sciences Commencement**

**May 19, 2023 | 2 p.m.**

PRESIDING

Christopher J. Cooper, M.D.

PROCESSIONAL

“Pomp and Circumstance”  
Edward Elgar (1857-1934)

Performed by: Glass City Brass

Thaddeus Archer — Trumpet

Bill Mathis — Trombone

Emily Dietz — French Horn

Rob Stierman — Tuba

Ric Wolkins — Trumpet

THE ACADEMIC PROCESSION

Obi Ekwenna, M.D.

*Grand Marshal*

*President, College of Medicine and  
Life Sciences Council*

College Faculty

Representatives of Colleges,  
Universities, Learned Societies and  
Professional Organizations Candidate  
for the Honorary Degree of Doctor  
of Science

Members of the Administration  
Board of Trustees

WELCOME AND THE INTRODUCTION  
OF THE NATIONAL ANTHEM

Christopher J. Cooper, M.D.

NATIONAL ANTHEM

“Star-Spangled Banner”  
Francis Scott Key

Performed by  
Docapella and Vocal Remedy

WELCOME AND RECOGNITION  
OF DISTINGUISHED GUESTS

Christopher J. Cooper, M.D.

PRESENTATION OF  
DAVID R. WILLIAMS, PH.D., M.P.H.  
FOR THE DEGREE OF DOCTOR  
OF SCIENCE, *HONORIS CAUSA DEGREE*

Christopher J. Cooper, M.D.

CONFERRING THE HONORARY  
DEGREE OF DOCTOR OF SCIENCE

Gregory C. Postel, M.D.

AWARDING OF THE HONORARY  
DEGREE OF DOCTOR OF SCIENCE

Christopher J. Cooper, M.D.  
and Randall Worth, Ph.D.

COMMENCEMENT ADDRESS	David R. Williams, Ph.D., M.P.H.
PRESENTATION OF THE DEGREE CANDIDATES	Kandace Williams, Ph.D. and Randall Worth, Ph.D.
CONFERRING THE DEGREES AND GRADUATE CERTIFICATES	Gregory C. Postel, M.D.
CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCE	Kandace Williams, Ph.D.
CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE IN BIOMEDICAL SCIENCES	Kandace Williams, Ph.D.
GRADUATE STUDENT COMMENCEMENT SPEECH	Joshua Breidenbach, Ph.D.
CANDIDATES FOR THE DEGREES OF DOCTOR OF MEDICINE	Randall Worth, Ph.D.
RECITATION OF THE PHYSICIAN'S OATH	Malik Mays, M.D.
OATH OF OFFICE FOR SUPERCESSION CEREMONY	Thomas C. Sodeman, M.D., M.P.H., M.A., M.S.S., FACP, CASP, Col FS, OHANG
MEDICAL STUDENT COMMENCEMENT SPEECH	Samantha Achauer, M.D.
ALUMNI ASSOCIATION GREETING	Thomas Mehelas, M.D.
CLOSING REMARKS	Christopher J. Cooper, M.D.
RECESSIONAL	"Rondeau" Jean-Joseph Mouret (1682-1738) Performed by Glass City Brass

COLLEGE OF  
MEDICINE AND  
LIFE SCIENCES

**Christopher J. Cooper, M.D.**  
**Dean**

**Doctor of Philosophy in Biomedical Science**



**Rawan Alnafisah**

Molecular Medicine

Advisor: Sinead O'Donovan, Ph.D.

Dissertation Title: Dysregulated Kinase Networks in Major Depressive Disorder



**Joshua Breidenbach**

Medical Microbiology and Immunology

Certificate: Bioinformatics and Biomarkers

Advisors: Steven T. Haller, Ph.D. and David J. Kennedy, Ph.D.

Dissertation Title: Aerosol Exposure to Harmful Algal Bloom Toxins and Airway Inflammation



**Veani Roshale Fernando**

Cell and Cancer Biology

Advisor: Saori Furuta, Ph.D.

Dissertation Title: Immunogenic Shift of Arginine Metabolism to Reprogram Tumor-Associated Macrophages in Breast Cancer



**Abdul-Rizag Hamoud**

Neuroscience and Neurological Disorders

Advisor: Robert Smith, M.D., Ph.D.

Dissertation Title: Examining Differential Cancer Rates in Severe Mental Illness



**Joshua Letson**

Cell and Cancer Biology

Advisor: Saori Furuta, Ph.D.

Dissertation Title: The Mechanism of Nitric Oxide-Mediated Suppression of TGF $\beta$  and its Relevance in Breast Cancer Pathogenesis



**Xue Mei**

Molecular Medicine

Advisor: Bina Joe, Ph.D.

Dissertation Title: Host-Microbiota Interaction in Hypertension: i, Oral and Sex-Specific Microbiota Are Associated With Hypertension; ii, Repurposing an Anti-inflammatory Drug for Hypertension; iii, Probiotic Recombinant Microbiota Engineered to Produce ACE2 Targets Enteric Angiotensin II Sex-Specifically in Hypertension



**Smrithi Sugumaran Menon**

Medical Microbiology and Immunology

Advisor: Viviana P. Ferreira, D.V.M., Ph.D.

Dissertation Title: Mechanisms by which Factor H protects *Trypanosoma cruzi* from the alternative pathway of complement

## Master of Science in Biomedical Sciences



**Raveed Ahmed**  
Medical Sciences



**Sophie Brown**  
Assistant in Pathology



**David Anand**  
Medical Physics



**Ariane Crabb**  
Medical Sciences



**Jibril Barayseh**  
Medical Sciences



**Melissa Davis**  
Assistant in Pathology



**Josie Barger**  
Transplantation and Donation  
Sciences



**Amber Edson**  
Medical Sciences



**Jacob Bertemes**  
Medical Physics



**Joshua Gadelsayed**  
Medical Sciences



**Jacob Gibbs**  
Medical Physics



**Savanna King**  
Medical Sciences



**Yorknews Gonzalez**  
Assistant in Pathology



**Alexandra Kruzel**  
Bioinformatics and  
Proteomics-Genomic



**Maureen Hack**  
Assistant in Pathology



**Dana Loyal**  
Assistant in Pathology



**Joseph Henen**  
Medical Sciences



**Aadarsh Mahendran**  
Medical Sciences



**Vivian Isaac**  
Medical Sciences



**Nadin Mohamed**  
Medical Sciences



**Caitlin Murphy**  
Medical Sciences



**Emma Verkley**  
Medical Science



**Fawnnie Pamenan**  
Medical Sciences



**Hope York**  
Medical Sciences



**Jorge Seoane**  
Medical Sciences



**Benjamin Zimmer**  
Medical Sciences



**Mirisha Sheth**  
Medical Sciences



**Jessica Tschantz**  
Bioinformatics and  
Proteomics-Genomic



COLLEGE OF MEDICINE  
AND LIFE SCIENCES  
THE UNIVERSITY OF TOLEDO

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AND LIFE SCIENCES  
THE UNIVERSITY OF TOLEDO



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## Doctor of Medicine



**Humza Aamir-Khan**

Residency: Internal Medicine  
Case Western Reserve University  
MetroHealth Medical Center  
Cleveland, OH



**Elizabeth Allen**

Residency: Internal Medicine  
OhioHealth Riverside Methodist  
Columbus, OH



**Kassem-Ali Abbas**

Residency: General Surgery  
University of Illinois College of  
Medicine at Chicago  
Chicago, IL



**Rachel Arens**

Residency: Family Medicine  
University of Miami Health System/  
Jackson Health System  
Miami, FL



**Kamil Abu-Shaban**

Residency: Radiology-Diagnostic  
Beaumont Health  
Royal Oak, MI



**Rachel Atkinson**

Residency: General Surgery  
The University of Connecticut School  
of Medicine  
Farmington, CT



**Samantha Achauer**

Residency: Psychiatry  
Wright State University Boonshoft  
School of Medicine  
Fairborn, OH



**Samar Ayoub**

Residency: Anesthesiology  
The University of Virginia  
Charlottesville, VA



**Jay Akolkar**

Residency: Internal Medicine  
The Indiana University School  
of Medicine  
Indianapolis, IN



**Karen Bach**

Residency: Plastic Surgery (Integrated)  
Yale-New Haven Hospital  
New Haven, CT



**Joyce Badal**  
 Residency: Internal Medicine  
 University of North Carolina  
 Medical Center  
 Chapel Hill, NC



**Diksha Bedi**  
 Residency: Family Medicine  
 Bethesda North Hospital  
 Cincinnati, OH



**Morgan Bailey**  
 Residency: Radiation Oncology  
 University of Cincinnati  
 Medical Center  
 Cincinnati, OH  
 Transitional Year  
 Kettering Health Network  
 Kettering, OH



**Celeste Bergman**  
 Residency: Internal Medicine  
 Case Western Reserve University  
 MetroHealth Medical Center  
 Cleveland, OH



**Silvi Bajrami**  
 Residency: General Surgery  
 The University of Pittsburgh  
 Mercy Hospital  
 Pittsburgh, PA



**Julia Beyer**  
 Residency: Orthopaedic Surgery  
 University Hospital  
 Columbia, MO



**Kenan Bakri**  
 Residency: Radiology-Diagnostic  
 University of Cincinnati Medical Center  
 Cincinnati, OH  
 Transitional Year  
 Mercy St. Vincent Medical Center  
 Toledo, OH



**Carter Billett**  
 Residency: Physical Medicine  
 and Rehabilitation  
 Ohio State University Medical Center  
 Columbus, OH  
 Medicine-Preliminary  
 OhioHealth Riverside Methodist  
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**Dhanushya Battepati**  
 Residency: Internal Medicine  
 Baylor Scott & White Medical Center  
 Temple, TX



**Matthew Bonavita**  
 Residency: Family Medicine  
 Medical University of South Carolina  
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**Laura Brant**  
Residency: Internal Medicine  
Trident Medical Center  
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Residency: Radiology-Diagnostic  
Harlem Hospital Center  
New York, NY  
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Firelands Regional Medical Center  
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**Camille Bratton**  
Residency: Obstetrics-Gynecology  
The University of Toledo  
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Residency: Internal Medicine  
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University Hospitals  
Cleveland Medical Center  
Cleveland, OH



**Bradley Brickman**  
Residency: Orthopaedic Surgery  
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Toledo, OH



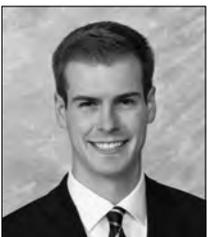
**Sophie Carus**  
Residency: Family Medicine  
Bethesda North Hospital  
Cincinnati, OH



**Chanell Brown**  
Residency: Orthopaedic Surgery  
Duke University Medical Center  
Durham, NC



**Russell Catania**  
Residency: Pediatrics  
Stanford Health Care  
Stanford, CA



**Joshua Busken**  
Residency: Internal Medicine  
Tulane University School of Medicine  
New Orleans, LA



**Karan Chawla**  
Residency: Vascular Surgery  
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**Trisha Clark**  
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**Daniel Counihan**  
 Residency: General Surgery  
 Boston University Medical Center  
 Boston, MA



**Jay Cok**  
 Residency: Pediatrics  
 Wright State University Boonshoft  
 School of Medicine  
 Fairborn, OH



**Daniel Craig**  
 Residency: Internal Medicine  
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 Memorial Healthcare System  
 Pembroke Pines, FL



**Cameron Crasto**  
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**Madison Connelly**  
 Residency: Neurology  
 Case Western Reserve University  
 University Hospitals  
 Cleveland Medical Center  
 Cleveland, OH



**Nicholas Delcimmuto**  
 Residency: Neurology  
 University Of Texas Medical School  
 Houston, TX



**Johnathan Cooper**  
 Residency: Internal Medicine  
 Mount Carmel Health System  
 Grove City, OH



**Meridith Deluca**  
 Residency: Orthopaedic Surgery  
 Summa Health Northeast  
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 Akron, OH



**Monika Devanaboyina**  
 Residency: Ophthalmology  
 Virginia Commonwealth University  
 Health System  
 Richmond, VA  
 Medicine-Preliminary  
 Virginia Commonwealth University  
 Health System  
 Richmond, VA



**Cassidy Eby**  
 Residency: Internal Medicine  
 The University of Toledo  
 Toledo, OH



**Katelyn Einloth**  
 Residency: Psychiatry  
 University of North Carolina Hospitals  
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**Pratyush Devarasetty**  
 Residency: Anesthesiology  
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**Charles Dong**  
 Residency: Psychiatry  
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 Ann Arbor, MI



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 Residency: General Surgery  
 WellSpan Health York Hospital  
 York, PA



**Sydney Donohue**  
 Residency: Internal Medicine  
 Case Western Reserve University  
 University Hospitals  
 Cleveland Medical Center  
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**Lena Faisel**  
 Residency: Obstetrics-Gynecology  
 Harbor-University of California  
 Los Angeles Medical Center  
 Torrance, CA



**Louis Filipiak**  
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 Rush University Medical Center  
 Chicago, IL



**Scott Gayfield**  
 Residency: Internal Medicine  
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**Allison Franz**  
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**Pratiti Ghosh-Dastidar**  
 Residency: Neurology  
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 Transitional Year  
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 Ohio Medical University  
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**Megha Gangadhar**  
 Residency: Family Medicine  
 McGaw Medical Center of  
 Northwestern University  
 Grayslake, IL



**Caleb Halfhill**  
 Residency: Emergency Medicine  
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 Homer Stryker M.D. School of Medicine  
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**Keith Hansz**  
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Lebanon, NH



**Gabrielle Hymel**  
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 Residency: Pediatrics  
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**Jamie Kent**  
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**Davinder Kaur**  
 Residency: Family Medicine  
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**Jessie Kaur**  
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 Flint, MI



**Troy King**  
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**Adam Koenig**

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Residency: Internal Medicine  
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Medical School  
New Brunswick, NJ



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Science Center  
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Residency: Radiology-Diagnostic  
University of Cincinnati Medical Center  
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Medicine-Preliminary  
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MetroHealth Medical Center  
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**Suela Lamaj**

Residency: Surgery-Preliminary  
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University Hospitals  
Cleveland Medical Center  
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**Austin Krantz**

Residency: Psychiatry  
Akron General Medical Center/  
NEOMED  
Akron, OH



**Jacob Lang**

Residency: Urology  
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Medical Center  
New York, NY



**Austin Lee**  
 Residency: Neurology  
 Mercy St. Vincent Medical Center  
 Toledo, OH  
 Transitional  
 Mercy St. Vincent Medical Center  
 Toledo, OH



**Zachary McCleary**  
 Residency: Neurology  
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**Lauren Leiby**  
 Residency: Obstetrics-Gynecology  
 Beaumont Health  
 Royal Oak, MI



**Thomas McMaster**  
 Residency: Physical Medicine  
 and Rehabilitation  
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 MetroHealth Medical Center  
 Cleveland, OH



**Mark Lewandowski**  
 Residency: Anesthesiology  
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 Winston-Salem, NC



**Joseph McTague**  
 Residency: Emergency Medicine  
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 Toledo, OH



**Eliah Lux**  
 Residency: Emergency Medicine  
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 Nazareth, PA



**Claire Miller**  
 Residency: Neurology  
 The University of Toledo  
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**Malik Mays**  
 Residency: Obstetrics-Gynecology  
 Mayo Clinic  
 Rochester, MN



**Anil Mishra**



**Karthik Mohanarangan**  
Residency: Emergency Medicine  
Mercy St. Vincent Medical Center  
Toledo, OH



**Melinda Nguyen**  
Residency: Surgery-Preliminary  
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University Hospitals  
Cleveland Medical Center  
Cleveland, OH



**Cameron Moon**  
Residency: Physical Medicine  
and Rehabilitation  
University of North Carolina Hospitals  
Chapel Hill, NC



**Stephanie Ong**  
Residency: Internal Medicine  
Olive View-University of California,  
Los Angeles Medical Center  
Sylmar, CA



**Jacob Morman**  
Residency: Pediatrics  
Medical College of Wisconsin  
Affiliated Hospitals  
Milwaukee, WI



**Daniel O'Shea**  
Residency: Internal Medicine  
West Virginia University School  
of Medicine  
Morgantown, WV



**Joshua Ng**  
Residency: Psychiatry  
Zucker School of Medicine  
Zucker Hillside Hospital  
Glen Oaks, NY



**Victor Osio**  
Residency: Internal Medicine  
The Detroit Medical Center  
Detroit, MI



**Neele Ngo**  
Residency: Psychiatry  
Cambridge Health Alliance Hospital  
Cambridge, MA



**Swati Pandravad**  
Residency: Psychiatry  
Cleveland Clinic Foundation  
Cleveland, OH



**James Papadimos**  
Residency: Family Medicine  
Cleveland Clinic Foundation  
Lakewood, OH



**Michaela Rasmussen**  
Residency: Orthopaedic Surgery  
Henry Ford Hospital  
Detroit, MI



**Radha Patel**  
Residency: Neurology  
The University of Toledo  
Toledo, OH



**Madison Rectenwald**  
Residency: Emergency Medicine  
Orlando Health  
Orlando, FL



**Mitchell Pei**  
Residency: Family Medicine  
Advocate Health Care  
Park Ridge, IL



**Philip Reed**  
Residency: Internal Medicine  
HCA Healthcare  
Nashville, TN



**Evan Prichard**  
Residency: Internal Medicine  
Case Western Reserve University  
MetroHealth Medical Center  
Cleveland, OH



**Naveen Rehman**  
Residency: Internal Medicine  
Cleveland Clinic Foundation  
Cleveland, OH



**Jacob Radabaugh**  
Residency: General Surgery  
Naval Medical Center  
Portsmouth, VA



**Eric Roose**  
Residency: Family Medicine  
Akron General Medical Center/  
NEOMED  
Akron, OH



**Kylie Rostad**  
 Residency: Internal Medicine  
 Yale-New Haven Hospital  
 New Haven, CT



**Mitchell Salke**  
 Residency: Internal Medicine  
 The University of Toledo  
 Toledo, OH



**Maria Roufaeil**  
 Residency: Pediatrics  
 Case Western Reserve University  
 University Hospitals  
 Cleveland Medical Center  
 Cleveland, OH



**Makenna Salsbury**  
 Residency: General Surgery  
 Summa Health Northeast  
 Ohio Medical University  
 Akron, OH



**Shaunak Roy**  
 Residency: General Surgery  
 The University of Toledo  
 Toledo, OH



**Tiana Sarsour**  
 Residency: Emergency Medicine  
 Case Western Reserve University  
 University Hospitals  
 Cleveland Medical Center  
 Cleveland, OH



**Rachel Royfman**  
 Residency: Internal Medicine  
 Ohio State University Medical Center  
 Columbus, OH



**Noah Saunders**  
 Residency: Surgery-Preliminary  
 The Johns Hopkins Hospital  
 Baltimore, MD



**Waleed Salem**  
 Residency: General Surgery  
 The University of Toledo  
 Toledo, OH



**Eve Schodowski**  
 Residency: Internal Medicine  
 Case Western Reserve University  
 University Hospitals  
 Cleveland Medical Center  
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**Erica Sheehan**  
Residency: Pediatrics  
Loma Linda University  
Loma Linda, CA



**Nicholas Stimes**  
Residency: Anesthesiology  
The University of Toledo  
Toledo, OH



**Allison Shimmel**  
Residency: Family Medicine  
The University of Chicago  
Medical Center  
Chicago, IL



**Kyle Storm**  
Residency: Internal Medicine  
Hospital of the University of  
Pennsylvania  
Philadelphia, PA



**Taylor Shook**  
Residency: Medicine-Preliminary  
The Christ Hospital  
Cincinnati, OH



**Sameer Syed**  
Residency: Physical Medicine  
and Rehabilitation  
The University of Toledo  
Toledo, OH  
Medicine-Preliminary  
The University of Toledo  
Toledo, OH



**Alena Sidwell**  
Residency: Physical Medicine  
and Rehabilitation  
Carolinas Medical Center  
Charlotte, NC  
Medicine-Preliminary  
Carolinas Medical Center  
Charlotte, NC



**Sadia Tahir**  
Residency: Dermatology  
Cleveland Clinic Foundation  
Cleveland, OH



**Brandon Speedy-Martin**  
Residency: Family Medicine  
Madigan Army Medical Center  
Tacoma, WA



**Benjamin Talbot**  
Residency: Vascular Surgery  
Spectrum Health  
Michigan State University  
Grand Rapids, MI



**Luke Tsai**

Residency: Physical Medicine  
and Rehabilitation  
University of Wisconsin Hospital  
and Clinics  
Madison, WI

Transitional Year  
Mercy St. Vincent Medical Center  
Toledo, OH



**Barat Venkataramany**

Residency: Internal Medicine  
University of Cincinnati Medical Center  
Cincinnati, OH



**Mallory Vild**

Residency: Obstetrics-Gynecology  
OhioHealth Riverside Methodist  
Columbus, OH



**Claire Turgeon**

Residency: Physical Medicine  
and Rehabilitation  
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Medical Center  
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**Alexander Vonderau**

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**Laura Wang**

Residency: Family Medicine  
University of Kentucky Medical Center  
Lexington, KY



**Shahnaz Vellani**

Residency: Obstetrics-Gynecology  
University of California  
Irvine Medical Center  
Orange, CA



**Casey Webster**

Residency: Emergency Medicine  
Yale-New Haven Hospital  
New Haven, CT



**Samuel Welborn**  
 Residency: Transitional  
 Madigan Army Medical Center  
 Tacoma, WA



**Julia Wright**  
 Residency: Psychiatry  
 Pine Rest Christian Mental Health  
 Services  
 Grand Rapids, MI



**James Wesley**  
 Residency: Internal Medicine  
 Trinity Health Ann Arbor Hospital  
 Ann Arbor, MI



**Brandon Yonel**  
 Residency: Anesthesiology  
 Stony Brook University Hospital  
 Stony Brook, NY



**Emma Whiteley**  
 Residency: Pediatrics  
 Children’s Hospital Los Angeles  
 Los Angeles, CA



**Rame Yousif**  
 Residency: Transitional  
 Firelands Regional Medical Center  
 Sandusky, OH



**Brady Williams**  
 Residency: Radiology-Diagnostic  
 The University of Missouri–Kansas City  
 Kansas City, MO  
 Medicine-Preliminary  
 The University of Toledo  
 Toledo, OH



**Robert Yoxtheimer**  
 Residency: Family Medicine  
 Western Michigan University  
 Homer Stryker M.D. School of Medicine  
 Kalamazoo, MI



**Davontae Willis**  
 Residency: Emergency Medicine  
 Wellstar Kennestone Hospital  
 Marietta, GA

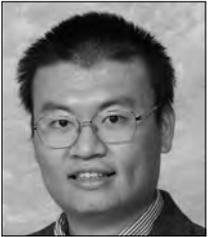


**Paul Zamarripa**  
 Residency: Internal Medicine  
 Trinity Health Ann Arbor Hospital  
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**Alaina Zhang**

Residency: Ophthalmology  
Beaumont Health  
Royal Oak, MI  
Transitional Year  
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Royal Oak, MI



**Adrian Zhou**

Residency: Radiology-Diagnostic  
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Philadelphia  
Philadelphia, PA  
Medicine-Preliminary  
The Einstein Medical Center  
Philadelphia  
Philadelphia, PA



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# OUTSTANDING STUDENT AWARDS

**Doctor of Philosophy in Biomedical  
Sciences Program**

**Outstanding Student**

Joshua Breidenbach

**Master of Science in Biomedical  
Sciences Medical Physics Program**

**Outstanding Student**

Jacob Gibbs

**Master of Science in Biomedical  
Sciences in Physician Assistant  
Studies Program**

**Outstanding Student**

Judd Koujane

**Master of Science in Biomedical  
Sciences Transplantation and  
Donations Sciences Program**

**Outstanding Student**

Josie Barger

**Master of Science in Biomedical  
Sciences Pathology Assistant  
Program**

**Outstanding Student**

Sophie Brown

**Emergency Medical Services**

**Outstanding Student**

Dalton Mitchey

# MEDICAL STUDENT AWARDS

## **The Glidden L. Brooks Award**

The Glidden L. Brooks Award, named in honor of the first president of the former Medical College of Ohio, is presented annually to that graduating medical student who is distinguishable by superiority in all phases of the curriculum.

Karim Ibrahim

## **Dean's Award**

The Dean's Award is awarded to that graduating medical student who, in the eyes of fellow students, shows the greatest promise as a practitioner of medicine.

Malik Mays

## **Office of Student Affairs Award for Excellence in Career Advising**

Scott Gayfield

## **Lucien E. Morris, M.D.**

### **Anesthesia Award**

Mark Lewandowski

## **Society for Academic Emergency Medicine Excellence in Emergency Medicine Award**

Madison Rectenwald

## **Jerri Nielsen FitzGerald Award**

Megan Gothard

## **Harry E. Mayhew, M.D. Department of Family Medicine Award**

Brandon Speedy-Martin

## **Toledo/Lucas County Academy of Family Physicians Award**

Allison Shimmel

## **Diversity and Inclusion Award**

Malik Mays

## **American College of Physicians Ohio Chapter Outstanding Medical Student of the Year**

Joyce Badal

## **George D. Ludwig Prize in Medicine**

Daniela Kaissieh

## **Patrick J. Mulrow Prize in Medicine**

Rochell Issa

## **American Academy of Neurology Medical Student Prize for Excellence in Neurology**

Nicholas Delcimmuto

## **Outstanding Neurology Student Award**

Nicholas Delcimmuto

## **Outstanding Student in Obstetrics and Gynecology Award**

Malik Mays

## **Philip T. Nelson Award for Excellence in Ophthalmology**

Alaina Zhang

## **Outstanding Orthopaedic Student of the Year**

Julia Beyer

## **Pathology Award for Most Outstanding Student**

Sadia Tahir

## **Marian M. Rejent, M.D. Award in Pediatrics**

Russell Catania

## **Eleanore Coghlin Award for Excellence in Rehabilitation Medicine**

Carter Billett

## **Psychiatry Excellence Award**

Swati Pandruvada

## **Theodore P. and Evelyn H. Chengelis Memorial Award in Psychiatry**

Julia Wright

## **2023 Excellence in Public Health Award**

Jasskiran Kaur

**2021 Excellence in Public Health Award**

Nealie Ngo

**Outstanding Students in Radiology**

Joseph Braun

**Dr. Sam Schaeffer Award**

Malik Mays

**Marion C. Anderson Award for Excellence in Surgery**

Megan Ireland

**Toledo Surgical Society Medical Center Student Recognition Award**

Daniel Counihan

**Reginald Baugh Prize**

Chanell Brown

**Edward F. Ockuly Student Award in Urology**

Jacob Lang

**The Leonard Tow Humanism in Medicine Award**

The Leonard Tow Humanism in Medicine Awards presented by The Arnold P. Gold Foundation are bestowed on one graduating medical student and one faculty member who embody outstanding humanistic traits in the delivery of care to patients and their families and in their interactions with students, faculty, and staff. The recipients are selected by the graduating class.



**Shahnaz Vellani**



**Joan Duggan, M.D.**

**Distinction in Research Awardees**

Rachel Atkinson

Karen Bach

Dhanushya Battepati

Alex Carsel

Karan Chawla

Madison Connelly

Daniel Craig

Megan Ireland

Rochell Issa

Laura Jayne

Amber Kihm

Erin Koffman

Rebecca Kuang

Jacob Lang

Stephanie Ong

Swati Pandrurada

Shaunak Roy

Rachel Royfman

Noah Saunders

Eve Schodowski

Barat Venkataramany

Rame Yousif

**OUTSTANDING SERVICE AWARDS**

**Outstanding Clerkship Coordinator Award**

Dawn Jagodzinski

**Outstanding Student Services Staff Award**

Christopher Prevette, M.S.

**Office of Student Affairs Award for Excellence in Career Advising – Faculty**

Victoria Kelly, M.D.

# MEDICAL HONOR SOCIETIES

## **Alpha Omega Alpha Honor Medical Society**

The Alpha Omega Alpha Honor Medical Society was founded in Chicago in 1902 by medical students to formulate higher ideals of scholastic achievement and to foster the scientific and philosophical features of the medical profession. The Delta of Ohio chapter at The University of Toledo College of Medicine and Life Sciences was installed in 1974. Election to membership is extended to junior and senior medical students whose academic excellence places them in the upper sixth of their class and who show promise of leadership in medicine. Induction in the junior year is extended to the top 8% of the class.

Rachel Atkinson	Meridith DeLuca	Jacob Lang
Karen Bach	Pratyush Devarasetty	Nealie Ngo
Joyce Badal	Katelyn Einloth	Casey Pollard
Morgan Bailey	Louis Filipiak	Michaela Rasmussen
Julia Beyer	Benjamin Hoste	Kylie Rostad
Bradley Brickman	Karim Ibrahim	Sadia Tahir
Russell Catania	Megan Ireland	Claire Turgeon
Madison Connelly	Rochell Issa	Shahnaz Vellani
Daniel Counihan	Gavin Kelly	Barat Venkataramany
Cameron Crasto	Rebecca Kuang	Emma Whiteley

## **Gold Humanism Honor Society**

The Gold Humanism Honor Society is a national honor society initiated in 2001 by The Arnold P. Gold Foundation to recognize individuals who have demonstrated exemplary attitudes and behaviors characteristic of the most humanistic physicians, including integrity, excellence, compassion, altruism, respect, empathy and service.

The University of Toledo chapter of the Gold Humanism Honor Society was founded in 2005. The members are selected by peer nomination and endorsed by the College of Medicine and Life Sciences Senior Leadership Team.

Humza Aamir-Khan	Katelyn Einloth	Kylie Rostad
Rachel Arens	Scott Gayfield	Shaunak Roy
Rachel Atkinson	Megan Gothard	Erica Sheehan
Karen Bach	Benjamin Hoste	Alena Sidwell
Julia Beyer	Karim Ibrahim	Claire Turgeon
Camille Bratton	Jasskiran Kaur	Shahnaz Vellani
Joshua Busken	Adam Koenig	Barat Venkataramany
Russell Catania	Erin Koffman	Mallory Vild
Madison Connelly	Karthik Mohanarangan	Adrian Zhou

# TEACHING AWARDS

## Robert T. Tidrick Golden Apple Awards

The Robert T. Tidrick Golden Apple Awards for teaching excellence are named in honor of Dr. Tidrick, a surgeon and outstanding educator on the faculty of the former Medical College of Ohio from 1969 until his death in June 1983, at the age of 73. Faculty, both basic scientists and clinicians, are selected for the honor each year by members of the graduating class of medical students.

### Robert T. Tidrick Golden Apple Award for Teaching Excellence in Basic Sciences



**Patrick Frank, B.A., B.S.,  
D.C.**



**Adel Maklad, M.D., Ph.D.**



**Bindu Menon, Ph.D.**

### Robert T. Tidrick Golden Apple Award for Teaching Excellence in Clinical Sciences



**Lawrence Elmer, M.D.,  
Ph.D.**



**Amira Gohara, M.D.**



**Stephanie Pannell, M.D.**

# OATH OF HIPPOCRATES

## **Upon this day of graduation, as I seek admission to the medical profession:**

I do solemnly affirm, as did the ancient Greeks, by all that I hold most sacred that, according to my ability and judgment I will keep this oath and its stipulations.

To hold my teachers in this art equal to my own parents and extend to them the respect and gratitude which is their due.

I will by precept, lecture and every other mode of instruction, impart a knowledge of the art to my sons and daughters and those of my teachers, and to disciples bound by covenant and oath according to the law of medicine.

I will follow that system of treatment which, according to my ability and judgment, I consider for the benefit of my patients and abstain from whatever is deleterious and mischievous.

I will exercise my art, solely for the cure of my patients and the prevention of disease and will give no drugs and perform no operations for a criminal purpose nor far less suggest such thing.

With honor and dignity, I will practice my profession not permitting consideration of religion, nationality, race or social standing to intervene between duty and my patient.

Into whatsoever houses I enter, I will go for the benefit of the sick and will hold myself aloof from every voluntary act of wrongdoing or corruption.

Whatever I may see or hear in the lives of men which ought not be spoken abroad, I will not divulge, reckoning that such should be kept secret.

While I continue to keep this oath unviolated, may it be granted to me to enjoy life and the practice of the art, respected by all men in all times. But should I trespass and violate this oath, may the reverse be my lot.



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FUELING **TOMORROWS**

